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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/590,008

08/21/2006

Satoshi Kadokawa

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6887

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SUGHRUE-265550

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EXAMINER

YABUT, DANIEL D

ART UNIT

PAPER NUMBER

3656

NOTIFICATION DATE

DELIVERY MODE

05/06/2010

ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

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Office Action Summary	Application No. 10/590,008	Applicant(s) KADOKAWA ET AL.	
	Examiner DANIEL YABUT	Art Unit 3656	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 12 April 2010.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-30 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-30 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☒ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. **Claims 1-30**, as best understood, are rejected under 35 U.S.C. 102(b) as being anticipated by Sada (US Patent 5,885,690).

Sada discloses rolling sliding parts of a surface which contacts another member comprising a(n):

Re claim 1

- Occupation ratio being set from 90% or more to less than 100% (C3 / L38-41)
- Occupation ratio is calculated by dividing a sectional area of a virtual plane in a plane direction at a portion that is positioned at a depth of 2.0 micrometers from the outermost surface position (C3 / L33-37; i.e. $R_{pk} = R_y - \text{depth} = 2.22 \text{ micrometers} - 2 \text{ micrometers} = 0.22 \text{ micrometers}$) by an area of an overall surface of a portion that contacts the other member
- Outermost surface position is defined as a highest portion out of fine roughnesses existing on the surface (C3 / L33-35; Fig. 1A)

Re claim 2

- Occupation ratio is set from 80% or more to less than 100% (C3 / L38-41)

Art Unit: 3656

- Occupation ratio is calculated by dividing a sectional area of a virtual plane in a plane direction at a portion that is positioned at a depth of 1.5 micrometers from the outermost surface position by an area of an overall surface of a portion that contacts the other member (C3 / L33-37; i.e. $R_{pk} = R_y - \text{depth} = 1.66 \text{ micrometers} - 1.5 \text{ micrometers} = 0.16 \text{ micrometers}$)
- Outermost surface position is defined as a position of a highest portion out of fine roughnesses existing on the surface (C3 / L33-35)

Re claim 3

- Occupation ratio is set from 50% or more to less than 100% (C3 / L38-41)
- Occupation ratio is calculated by dividing a sectional area of a virtual plane in a plane direction at a portion that is positioned at a depth of 1.0 micrometers from the outermost surface position by an area of an overall surface of a portion that contacts the other member (C3 / L33-37; i.e. $R_{pk} = R_y - \text{depth} = 1.11 \text{ micrometers} - 1.0 \text{ micrometers} = 0.11 \text{ micrometers}$)
- Outermost surface position is defined as a position of a highest portion out of fine roughnesses existing on the surface (C3 / L33-35)

Re claim 4

- Occupation ratio of a sectional area of a virtual plane in a plane direction at a portion that is positioned at a depth of 1.5 micrometers from the outermost surface position (C3 / L33-37; i.e. $R_{pk} = R_y - \text{depth} = 1.66 \text{ micrometers} - 1.5 \text{ micrometers} = 0.16 \text{ micrometers}$), to the area of the surface that contacts the other member is set to 80 % or more (C3 / L38-41).

Art Unit: 3656

Re claim 5

- Occupation ratio of a sectional area of a virtual plane in a plane direction at a portion that is positioned at a depth of 1.0 micrometers from the outermost surface position (C3 / L33-37; i.e. $R_{pk} = R_y - \text{depth} = 1.11 \text{ micrometers} - 1.0 \text{ micrometers} = 0.11 \text{ micrometers}$), to the area of the surface that contacts the other member is set to 50 % or more (C3 / L38-41).

Re claim 6

- An occupation ratio of a sectional area of a virtual plane in a plane direction at a portion that is positioned at a depth of 1.5 micrometers from the outermost surface position (C3 / L33-37; i.e. $R_{pk} = R_y - \text{depth} = 1.66 \text{ micrometers} - 1.5 \text{ micrometers} = 0.16 \text{ micrometers}$), to the area of the surface that contacts the other member is set to 80 % or more (C3 / L38-41), and also an occupation ratio of a sectional area of a virtual plane in a plane direction at a portion that is positioned at a depth of 1.0 micrometers from the outermost surface position (C3 / L33-37; i.e. $R_{pk} = R_y - \text{depth} = 1.11 \text{ micrometers} - 1.0 \text{ micrometers} = 0.11 \text{ micrometers}$), to the area of the surface of a portion that contacts the other member is set to 50% or more (C3 / L38-41).

Re claims 7-12

- The rolling sliding part is a roller constituting a cam follower unit (Fig. 3) in which an outer peripheral surface of a roller (11a) supported rotatably around a roller supporting shaft (12) is brought into contact with an outer peripheral surface of a cam (at 7) via a rolling contact.

Art Unit: 3656

Re claim 13-18

- The rolling sliding part is a rocker arm (at 3; C5 / L52-59) into a part of which a cam follower unit is incorporated.

Re claims 19-24

- The rolling sliding part is an inner ring (near 13; C5 / L43-51) having a cylindrical inner ring raceway on an outer peripheral surface or a shaft (12).

Re claim 25-30

- The rolling sliding part is a needle (13; C5 / L43-51) that is provided rollably between a cylindrical inner ring raceway and a cylindrical outer ring raceway (Fig. 2)

Response to Arguments

Applicant's arguments filed 4/12/2010, with respect to the rejection(s) of claim(s) 1-30 under under 35 U.S.C. 102(b) as being anticipated by Sada (US Patent 5,997,988) have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of Sada (US Patent 5,885,690).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to DANIEL YABUT whose telephone number is (571)270-5526. The examiner can normally be reached on Monday through Friday from 9:00 A.M. to 5:00 P.M. EST.

Art Unit: 3656

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richard W. Ridley can be reached on (571)272-6917. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/DANIEL YABUT/
Examiner, Art Unit 3656
5/3/2010

/Richard WL Ridley/
Supervisory Patent Examiner, Art Unit 3656